

ABSTRACT

RADIO FREQUENCY DEVICE WITH NULL OR QUASI-NULL INTERMEDIATE FREQUENCY MINIMIZING
INTERFERING FREQUENCY MODULATION APPLIED TO AN INTEGRATED LOCAL OSCILLATOR

A frequency transposition device is connected to a local main oscillator. The main oscillator is incorporated inside a main phase locked loop whereof the reference frequency is supplied by a voltage-controlled auxiliary oscillator, which is itself incorporated into an auxiliary phase locked loop. The reference frequency of the auxiliary phase locked loop is less than the frequency of the auxiliary oscillator for the main phase locked loop. The reference frequency of the main phase locked loop is less than the output frequency of the main oscillator, is greater than 10 times the frequency spacing of the channels reduced to the output frequency of the main oscillator, and is removed by a whole multiple of the send or receive frequency from at least the cut-off frequency of the main phase locked loop.